

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1.-17. (Canceled)

Claim 18. (Currently amended) ~~The method according to claim 16,~~
~~wherein:~~

A method for manufacturing a millimeter wave radar module that sends out radar waves generated by at least one MMIC via an antenna pattern, the method comprising the steps of:

mounting said MMIC on a substrate with wiring;

enclosing said MMIC by joining a cap to said substrate in such a manner as to form a first enclosure which surrounds said MMIC; and

covering the joint between said cap and said substrate at least with a moisture resistant gel; wherein,

said substrate is provided with a wall that separates said first enclosure from a second enclosure that surrounds said first enclosure; and

said gel is filled into said second enclosure after joining said cap to

said substrate.

Claim 19. (New) A vehicle-mounted radar, comprising:

a substrate;

an electronic circuit mounted on said substrate to generate millimeter waves;

a cover that is joined to said substrate and forms a space on said substrate to contain said electronic circuit therein;

an antenna for sending out said millimeter waves and receiving their reflected waves;

a case that is combined with said substrate to form a recess for containing a joint between said cover and said substrate; and

a moisture resistant resin which is filled around said joint between said cover and said substrate in said recess.

Claim 20. (New) The vehicle-mounted radar according to Claim 19, wherein said antenna is provided on a surface of said substrate opposite to the surface on which said electronic circuit is mounted.

Claim 21. (New) The vehicle-mounted radar according to Claim 19, wherein said space is filled with an inert gas.

Claim 22. (New) The vehicle-mounted radar according to Claim 19, further comprising another cover for covering an opening of said case.

Claim 23. (New) The vehicle-mounted radar according to Claim 19, wherein said substrate is integral with said case.

Claim 24. (New) The vehicle-mounted radar according to Claim 19, wherein said electronic circuit is mounted on said substrate within said space.

Claim 25. (New) A millimeter wave radar module comprising:

- a multi-layer substrate;
- a patch antenna circuit formed on a portion of a surface of said multi-layer substrate;
- at least one MMIC mounted on a remaining portion of said surface of said multi-layer substrate;
- a cap that is joined to said multi-layer substrate and forms a space on said multi-layer substrate to contain said MMIC;
- a case that is combined with said multi-layer substrate to form a recess for containing a joint between said cap and said multi-layer substrate; and
- a moisture resistant resin which is filled around said joint around said joint between said cap and said multi-layer substrate in said recess.

Claim 26. (New) The millimeter wave radar module according to Claim 25, further comprising input/output signal terminals provided through said case, wherein:

said case is made of a conductive material;

a circumference of said input/output signal terminals is made of an insulation material; and

said input/output signal terminals are put through said case with said insulation material.

Claim 27. (New) The millimeter wave radar module according to Claim 25, wherein said multi-layer substrate is integral with said case.

Claim 28. (New) The millimeter wave radar module according to Claim 25, wherein said patch antenna circuit is formed on a separate member, and said member is attached to said multi-layer substrate.

Claim 29. (New) The millimeter wave radar module according to Claim 25, wherein:

said multi-layer substrate is non-planar, and is shaped so as to contain a space; and

a flat cover is joined to said multi-layer substrate so as to form said recess for said MMIC.

Claim 30. (New) The millimeter wave radar module according to Claim 25, wherein said space is filled with an inert gas.

Claim 31. (New) The millimeter wave radar module according to Claim 25, wherein said multi-layer substrate is made of either an inorganic material or an organic material.

Claim 32. (New) The millimeter wave radar module according to Claim 25, wherein said cap and said multi-layer substrate are joined by an organic material using as an adhesive.

Claim 33. (New) The millimeter wave radar module according to Claim 25, wherein said moisture resistance resin is a gelled organic resin.

Claim 34. (New) A method for manufacturing a radar module that sends out radar waves generated by at least one MMIC via an antenna pattern, the method comprising the steps of:

mounting said MMIC on a substrate with wiring;

forming an enclosure about said MMIC by joining a cap to said substrate in such a manner as to position said MMIC in said enclosure;

providing a recess containing a joint between said cap and said substrate
by attaching a case to said substrate;

filling said recess with a moisture resistant resin.

Claim 35. (New) The method according to Claim 34, wherein said
joining is performed in a nitrogen gas atmosphere.